

PUBLIC NOTICE

PERMIT APPLICATION: NRS # 06.129

APPLICANT: Seven Lakes Development, LLC

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Ooltewah, TN 37363
423-280-2088

LOCATION: Tributaries to Varnell Creek, located at the intersection of Roy Lane and Ooltewah-Georgetown Road, Chattanooga, Hamilton County, 35.1431 °N, -85.0370 °W

WATERSHED DESCRIPTION: The proposed alterations of an un-named tributary to Varnell Creek and associated wetlands are located in the Lower Tennessee Basin watershed (HUC06020001). The affected streams are unassessed tributaries to Varnell Creek. The classified uses for these streams are fish and aquatic life, recreation, livestock watering and wildlife, and irrigation. The streams originate from an existing pond and spring located on the development. The main tributary was assessed as a Tier 1 waterbody by the division. The stream flows toward Ooltewah-Georgetown Road; however, it becomes sub-surface before reaching Ooltewah Georgetown Road. The total length of existing streams on the property is 1662 linear feet (lf) for stream A and 330 lf for stream A-2. The channels are highly variable in width, have a riparian zone of grass and sparse trees, a rock sediment substrate and intermittent flow for the majority of the length. The herbaceous wetlands on-site are located on the upstream and downstream fringes of the existing pond. The previous land use was for cattle and many areas of the stream have been altered from grazing. Land use in the immediate area is mainly residential with some agricultural influences.

(Representative photos of the stream and wetland area are included on the Internet version of this notice at <http://www.state.tn.us/environment/wpc/wpcppo/arap>)

PROJECT DESCRIPTION: The applicant proposes to alter waters of the state by constructing an 8" sewer line with one stream crossing, 291 lf of road crossings, 445 lf of impoundment, 0.05 acres of wetland fill, and relocation of two sections of stream (total of 459 lf). For on-site compensation, the applicant proposes to create 289 lf of stream and enhance sections of the existing stream (two sections totaling 695 lf). Alterations are associated with the construction of a 139-acre residential subdivision.

Stream Relocation: The existing pond located on the development requires repair to prevent failure. The berm repairs require the relocation of 330 feet of stream A-2 and 129 linear feet of stream A. The first stream will lose 14 linear feet, but the second stream will have a new created section of 289 linear feet. Refer to sections E-E and F-F for proposed channel sections.

Road Crossings: Due to the construction of roads to develop the residential subdivision there will be a total 291 lf of road crossing culverts (Three crossings of 133, 97, and 61 linear feet).

Impoundment: The applicant proposes to construct two lakes with aerators located on the intermittent sections of stream A. The construction of the lakes will impound 445 lf of existing stream. The lakes will be 12 feet deep and will keep at least 6 feet of water at all times. The areas where the lakes are to be constructed are in areas on the stream where the flow is typically sub-surface.

Sewer Line Crossing: The un-named tributary to Varnell Creek would be crossed in one location by an 8" PVC sewer line.

On-site compensation: The proposed compensation for the 291 linear feet of culverting and the 14 linear feet of stream length loss is as follows. 1 - The creation of 289 linear feet of channel on the upstream end of channel A (cross section F-F). 2 - Bank stabilization and repair, riparian planting and introduction of in-stream habitat on 249 linear feet of stream A (cross section D-D). 3 - The removal of riprap, sloping and stabilization on 60 lf of stream A that is in a gas pipeline easement (cross section G-G). 4 - Bank stabilization and riparian planting along 386 linear feet of stream A (cross section H-H). The entire length of pond and streams in the project area will be included within community lots.

Seven Lakes Development

In accordance with the Tennessee Antidegradation Statement (Rule 1200-4-3-.06), the division has determined that the proposed activity will not result in degradation to water quality.

PERMIT COORDINATOR: Juliana W. Kyzar

USGS TOPOGRAPHIC QUADRANGLE: Snow Hill 112-NE



In section of stream proposed for bank stabilization and riparian planting.



Wetland area proposed for fill during berm repair activities.



Existing lake with wetland areas on upstream end. Wetlands not proposed for alteration.



Representative downstream section of stream A, proposed for bank stabilization and repair, riparian planting and introduction of in-stream habitat

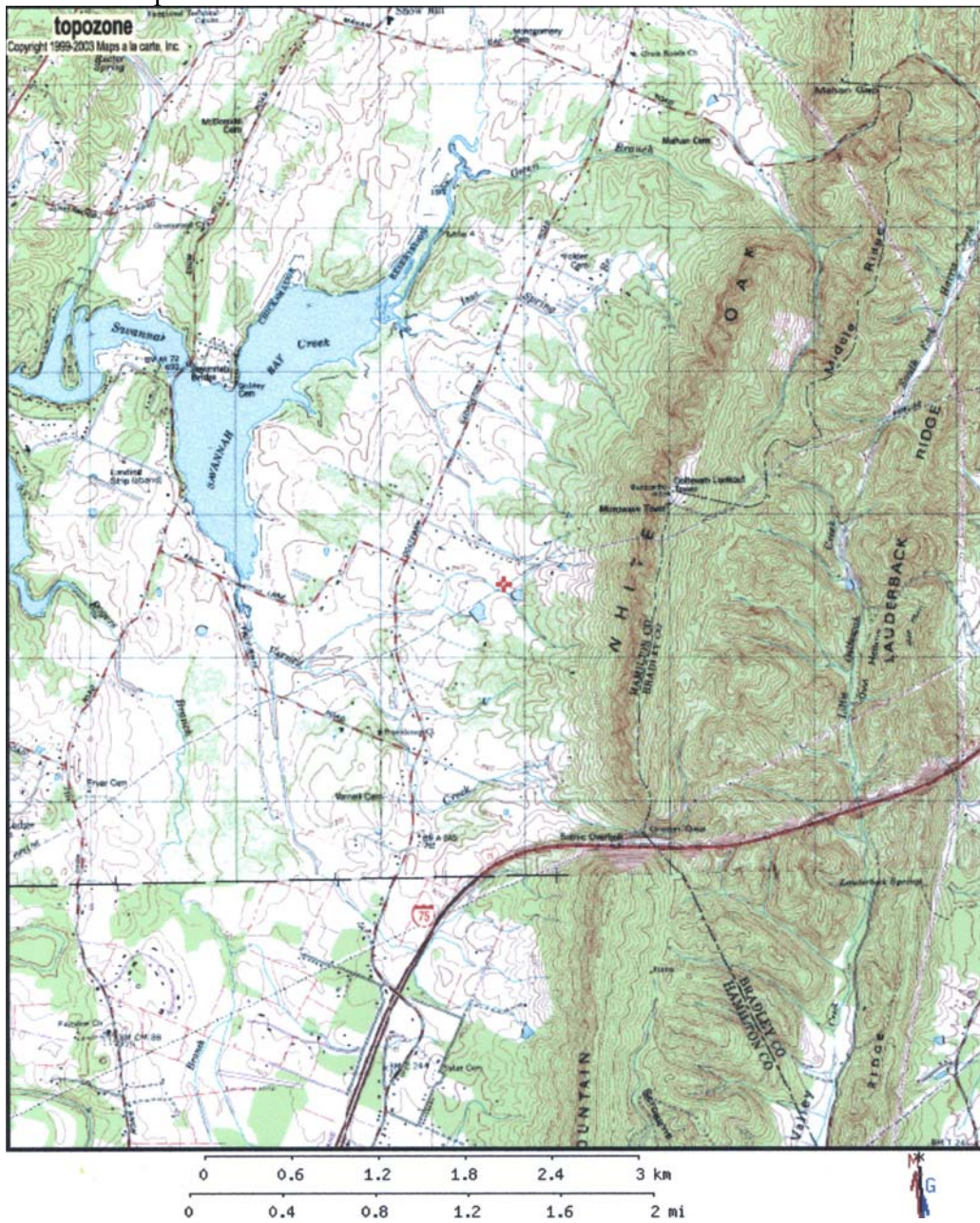


Figure 1: USGS topographic map with project area indicated

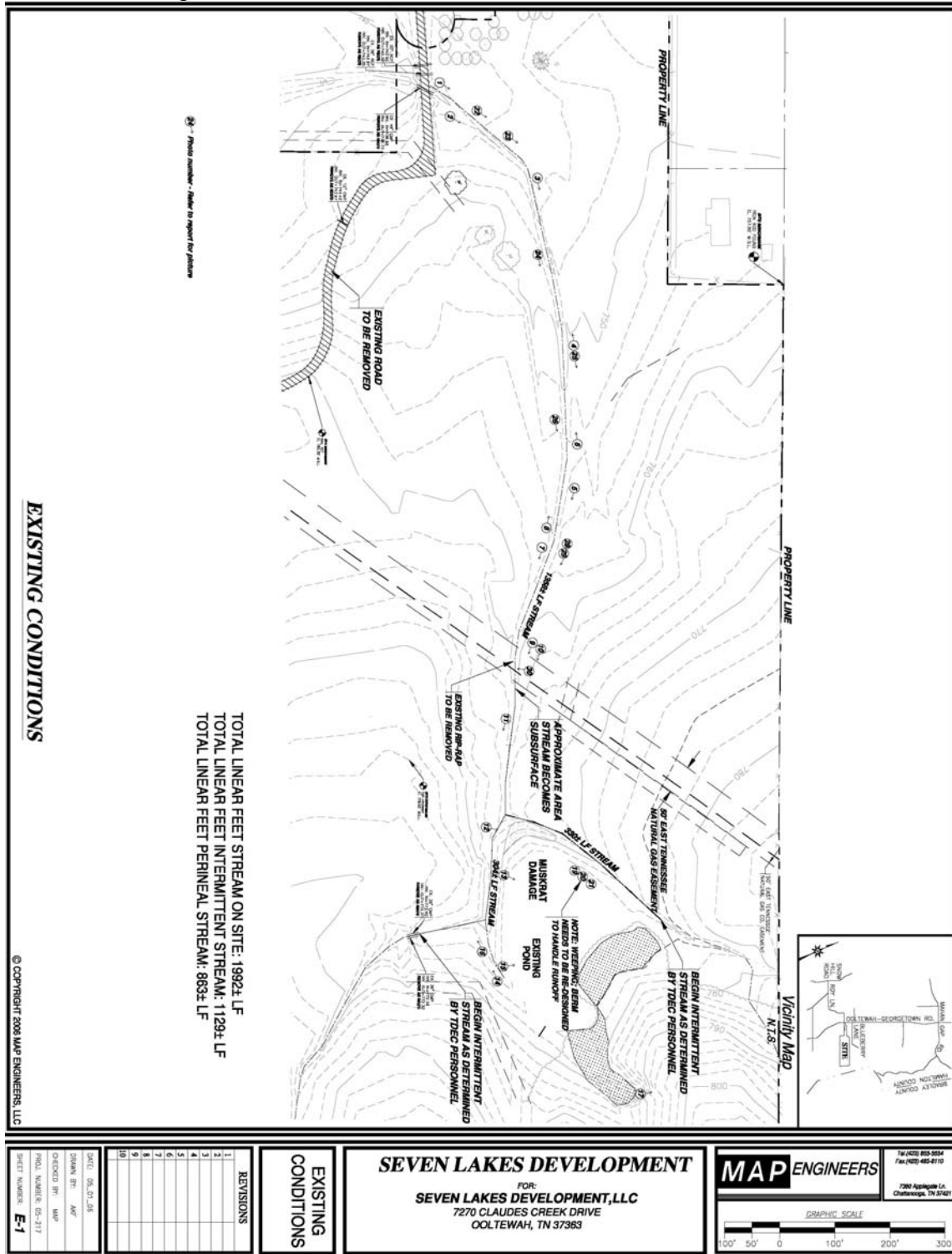
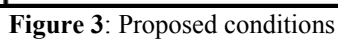


Figure 2: Existing conditions



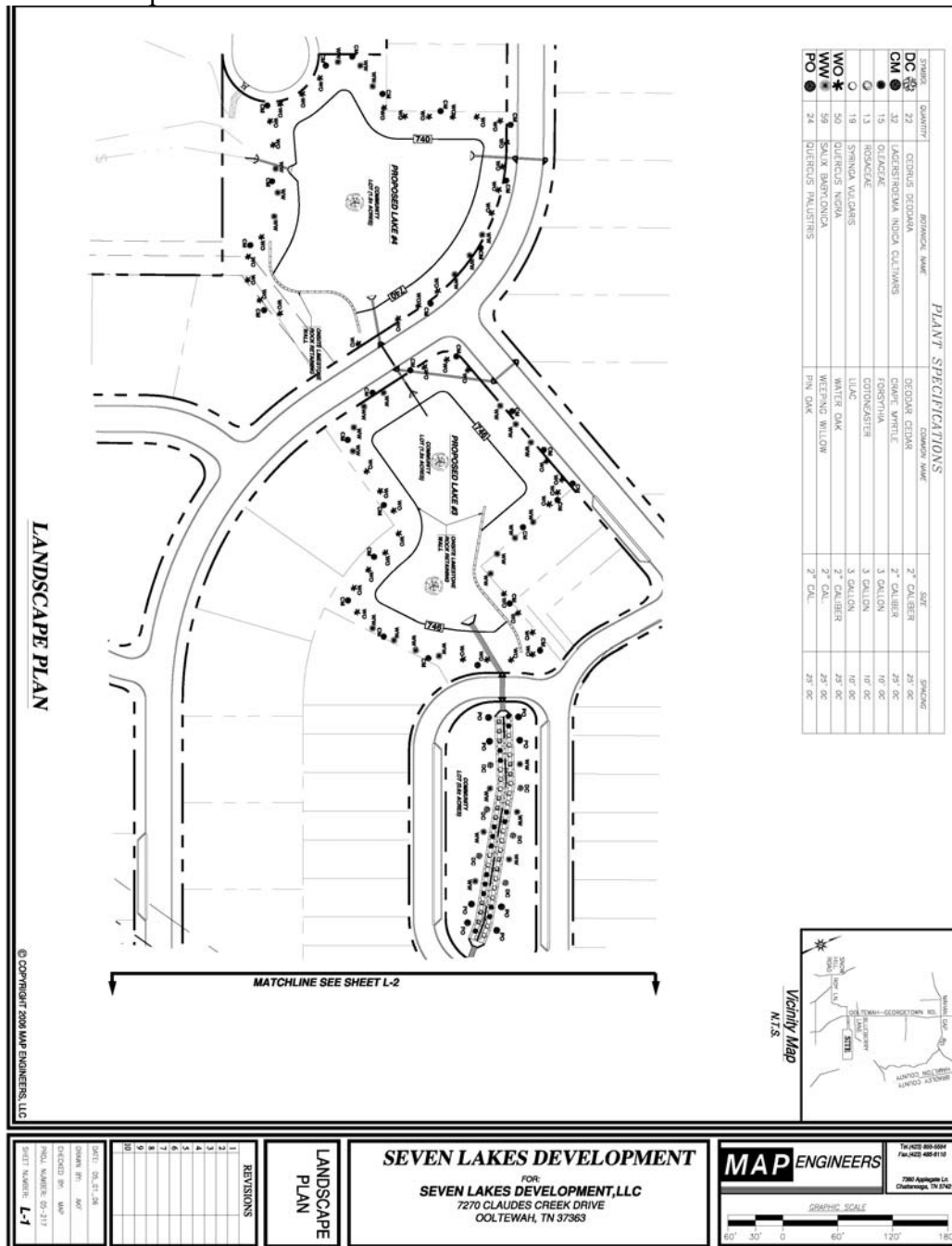


Figure 4: Landscape plan section 1.

